



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

SCIENTIFIC BOOKS

THE CONTROL OF HUNGER IN HEALTH AND DISEASE

By ANTON JULIUS CARLSON, *Professor of Physiology at the University of Chicago.*

A summary of the work of the stomach, with special reference to hunger and appetite, carried on at the Hull Physiological Laboratory, at the University of Chicago during the last four years. 219 pages. Price \$2.00 net.

University of Chicago Press, Chicago, Ill.

STATE SANITATION

By GEORGE CHANDLER WHIPPLE, *Professor of Sanitary Engineering at Harvard University. Member of the Public Health Council, Massachusetts State Department of Health.*

The primary object of this book is to set forth the past work of the Massachusetts State Board of Health, so that it may be known by the people of the present generation. 377 pages.

The Harvard University Press, Cambridge, Mass.

PRINCIPLES OF OCEAN TRANSPORTATION

By EMORY R. JOHNSON, PH.D., Sc.D., *Professor of Transportation and Commerce of the University of Pennsylvania,* and GROVER C. HUEBNER, PH.D., *Assistant Professor of Transportation and Commerce at the University of Pennsylvania.*

This book embodies all the principal changes that have recently occurred in methods of ocean transportation throughout the world. Illustrated with half-tones, maps and diagrams. 513 pages.

D. Appleton and Company, New York City

DESCRIPTIVE MINERALOGY

By WILLIAM SHIERLEY BAYLEY, *Professor of Geology at the University of Illinois*

A text-book for college classes, designed to give the student a comprehensive view of modern mineralogy, rather than a detailed knowledge of many minerals. 268 illustrations. 542 pages.

D. Appleton and Company, New York City

INORGANIC CHEMISTRY

By ALEXANDER SMITH, *Professor of Chemistry in Columbia University.*

A thorough treatise of inorganic chemistry for students beginning this study in college, university or professional schools. Third edition. 925 pages.

The Century Co., New York City

SOIL PHYSICS AND MANAGEMENT

By J. G. MOSIER, B.S., *Professor of Soil Physics, University of Illinois,* and A. F. GUSTAFSON, M.S., *Assistant Professor of Soil Physics, University of Illinois.*

The publication of this book fulfils three purposes: First, a text-book for agricultural students; second, a reference book for the practical farmer; and, third, an aid to the landowner who desires information in the management of his land. 202 illustrations. 442 pages.

J. B. Lippincott and Company, Philadelphia, Pa.

FIELD BOOK OF INSECTS

By FRANK E. LUTZ, *Associate Curator, Department of Invertebrate Zoology, American Museum of Natural History*

A popular treatise of the more common insects, with special reference to those of the Northeastern United States. 800 illustrations. 409 pages. Price, \$2.50 net.

J. P. Putnam's Sons, New York City

A TEXT-BOOK OF PRECIOUS STONES

By FRANK B. WADE, B.S., *Head of the Department of Chemistry, Shortridge High School, Indianapolis, Ind.*

This book presents, in as natural an order as possible, the fundamental principles and methods in use for identifying precious stones. 318 pages. Price, \$2.00 net.

J. P. Putnam's Sons, New York

COMPARATIVE ANATOMY OF VERTEBRATES

By J. S. KINGSLEY, *Professor of Zoology at the University of Illinois*

A text-book of comparative anatomy, laying special emphasis on the embryological side of the study. Second edition. 406 illustrations. 449 pages. Price, \$2.00 net.

P. Blakiston's Son and Company, Philadelphia, Pa.

TOPOGRAPHY AND STRATEGY IN THE WAR

By DOUGLAS WILSON JOHNSON, *Associate Professor of Physiology, Columbia University.*

This book treats the relationship between inanimate nature and the science of war and gives a picture of the different war fronts in order that the military campaigns of the war may be followed with greater ease. 211 pages. \$1.75 net.

Henry Holt & Co., New York

GENERAL ZOOLOGY

By A. S. PEARSE, *Associate Professor in the University of Wisconsin.*

This book has been written to be read by students of eighteen to twenty years of age. With this idea in view both the illustrations and text have been prepared more in the style of a natural history than of an anatomy. 366 pages.

Henry Holt & Co., New York

HISTORY OF MEDICINE

By FIELDING H. GARRISON, *Principal Assistant Librarian, Surgeon General's Office, Washington, D. C.*

This volume has been written with a definite intention of stimulating the student to do his own thinking and research, by interesting him in the subject from the start. 905 pages. Cloth \$6.50 net.

W. B. Saunders Co., Philadelphia, Pa.

A SHORT HISTORY OF SCIENCE

By W. T. SEDGWICK and H. W. TYLER *of the Massachusetts Institute of Technology.*

This volume seeks to furnish the student and the general reader with a concise account of the origin of our scientific knowledge and scientific methods. 474 pages. Price \$2.50 net.

The Macmillan Co., New York

EVERYMAN'S CHEMISTRY

By ELLWOOD HENDRICK, New York City.

This book aims to give to the average man a general realization of the tremendous importance of chemistry and its application in actual life. 373 pages.

Harper & Brothers, New York

A Handbook of American Private Schools

The 2nd Edition revised and enlarged of the Handbook of the Best Private Schools.

Among the new features are a Complete List of Private Secondary Schools; new Educational Directories; a List of Secondary School Periodicals.

New Introductory Chapters, — Measuring Educational Results, the Year in Education; Review of Recent Educational Literature, etc., by Prof. Arthur O. Norton of Wellesley College, Prof. Clayton C. Kohl of New York University and others.

640 pages, round corners, crimson cloth, gold stamped, \$2.50

A Handbook of New England

Descriptive of Town and Country along the Routes of Automobile Travel, with Introductory Chapters.

768 pages, round corners, crimson silk cloth, gold stamped, \$2.50

PORTER E. SARGENT
50 Congress St., Boston, Mass.

Archives of Psychology

- No. 27. A Statistical Study of Eminent Women. Cora Sutton Castle. Pp. 90. 80 cents; cloth, \$1.05.
No. 28. The Mental Capacity of the American Negro. Marion J. Mayo. Pp. 70. 60 cents; cloth, 85 cents.
No. 29. Experimental Studies in Judgment. H. L. Hollingworth. Pp. 119. \$1.25; cloth, \$1.50.
No. 30. The Psychological Researches of James McKeen Cattell; A Review by Some of his Pupils. Pp. 101. \$1.00; cloth, \$1.25.
No. 31. Fatigue and Its Effect upon Control. Isaac Emory Ash. Pp. 61. 60 cents; cloth, 85 cents.
No. 32. The Transfer Effects of Practice in Cancellation Tests. Melvin Albert Martin. Pp. 68. 60 cents; cloth 85 cents.
No. 33. The Intellectual Status of Children Who are Public Charges. J. L. Stenquist, E. L. Thorndike and M. R. Trabue. Pp. 52. 50 cents; cloth, 75 cents.
No. 34. The Relation of Quickness of Learning to Retentiveness. Darwin Oliver Lyon. Pp. 58. 50 cents; cloth 75 cents.
No. 35. The Overcoming of Distraction and Other Resistances. John J. B. Morgan. Pp. 78. 75 cents; cloth, \$1.

THE SCIENCE PRESS

LANCASTER, PA. SUB-STATION 84: NEW YORK

SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE

FRIDAY, APRIL 5, 1918

The American Association for the Advancement of Science:
Geology in Education; Professor Rollin D. Salisbury.

The Report of the Committee to visit the Harvard College Observatory.

Scientific Events:

The Museum of the University of Pennsylvania; Reconstruction Commissions of the British Government; Meeting of the General Medical Board of the Council of National Defense; Lectures on Agriculture.

Scientific Notes and News.

University and Educational News.

Discussion and Correspondence:

Scott on Canons of Comparative Anatomy; Professor E. C. Jeffrey. The Jerusalem Artichoke as a War Plant; Dr. L. O. Howard. Poisoning Tree; Parasites with Cyanide of Potassium; Professor Maynard M. Metcalf. Systematists and General Biologists; Dr. F. A. Bather.

Scientific Books:

Lectures on Heredity; Professor G. N. Collins.

Special Articles:

The Role of Catalase in Acidosis; Dr. W. E. Burge.

Annual Subscription \$5.00.

FRIDAY, APRIL 12, 1918

American Association for the Advancement of Science:

The Contribution of Zoology to Human Welfare; Dr. L. O. Howard.

The Status of Physiology in America; Dr. Max Withrow Morse.

Scientific Events:

Aurora and Magnetic Storm of March 7-8 in England; Engineering Training School at the Stevens Institute; English Medical Students and Military Service; War Work of the U. S. Coast and Geodetic Survey.

Scientific Notes and News

University and Educational News

Discussion and Correspondence:

Evidence from Alaska of the Unity of the Pleistocene Glacial Period; Dr. G. Frederick Wright. Drawing on Lantern Slides: Horace Gunthorp. Thin Sections for Bryozoan Slides; Charles E. Decker. A National Floral Emblem; Albert A. Hansen. Translations made Accessible; Lancaster D. Burling.

Scientific Books:

Washington on Chemical Analyses of Igneous Rocks; Professor Frank D. Adams

Fossil Man at Vero, Florida; Dr. Oliver P. Hay

Special Articles:

The Animal Census of Two City Lots; Dr. George N. Wolcott

Single Numbers 15 cents.

Published every Friday by

THE SCIENCE PRESS

LANCASTER, PA.

GARRISON, NEW YORK.

Sub-Station 84: New York

SCHOOL AND SOCIETY

A weekly journal covering the field of education in relation to the problems of American democracy

Edited by J. McKEEN CATTELL

SATURDAY, MARCH 23, 1918

Our Undertaking and why we Undertake it now: Ernest C. Moore.
The Sociological Principle determining the Elementary Curriculum:

Ross L. Finney.

Educational Events:

Child Welfare in Oklahoma; The Superintendent of Schools for New York City; The United States Volunteer War-garden Army; The National Emergency in Education.

Educational Notes and News.

Discussion and Correspondence:

College Teaching in Agriculture: R. Adams Dutcher.

Quotations:

The Salaries of Teachers in Massachusetts.

The War Department Committee on Education and Special Training.

Educational Research and Statistics:

Standards of Evaluating School Subjects as revealed by College Graduates: G. H. Colebank.

SATURDAY, MARCH 30, 1918

The Place of the State University in American Education: Benjamin Ide Wheeler.

The Place of the Educational Foundation in American Education: Clyde Furst.

The Making of Teachers: L. Pearl Boggs.

Educational Events:

The Retention of the Teaching of German in the Public Schools; Illiteracy in the United States; Teachers' Salaries in New York City.

Educational Notes and News.

Discussion and Correspondence.

The Ethics of Resignations: John C. Futrall.

Quotations:

The English Departmental Report on Salaries in Elementary Schools.

Books and Literature:

Educational Journals

Methods of Discovering the Exceptional Teacher.

Educational Research and Statistics:

An Analysis of Binet-Simon Records: J. F. Wallace Wallin.

SATURDAY, APRIL 6, 1918

Limitations of State Control in Education. Payson Smith.

The War and Educational Problems: V. L. Strickland.

Educational Events:

Use of the Schools in War Time: A National Department of Education; Students of Technical Schools and the Government Service. A Training School for Specialists in the Army.

Educational Notes and News.

Discussion and Correspondence:

Academic Freedom in Germany: S. N. Hagen. The French Child at School: Fernand Baldensperger.

Quotations:

No Local Embargo in Education.

The Humanities and the Sciences in England: Charles Knapp.

Educational Research and Statistics:

Private Teachers' Agencies and College Appointment Bureaus: Edwin A. Shaw.

SATURDAY, APRIL 13, 1918

Social and Educational Standards in a Democracy at War: David Rosenstein.

A Plea for Health Instruction in our Colleges and Universities: John Weinzirl.

Educational Events:

Industrial Training in Great Britain; Reconstruction of Crippled Soldiers; The Budgets of Public Schools; The Organization of Teachers.

Educational Notes and News.

Discussion and Correspondence:

The Teaching of French in the Army: Roy Temple House.

Quotations:

The Rights of Youth.

Books and Literature:

Educational Journals

Educational Research and Statistics:

Reliability of a Ph.D. Research Dissertation in Educational Psychology: W. A. McCall, G. J. Ruger.

Society and Meetings:

Michigan's School-men's Week; The National Association of Secondary-School Principals.

\$3.00 a Year

Published Weekly

10 Cents a Copy

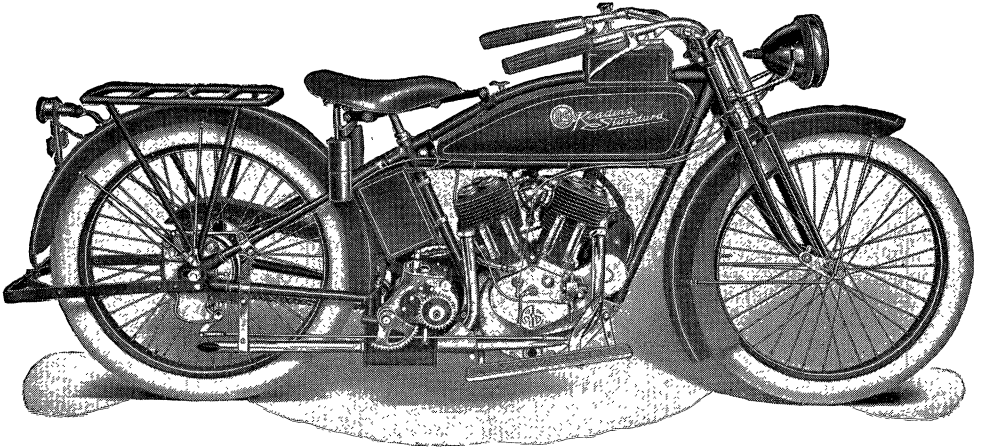
THE SCIENCE PRESS

Lancaster, Pa.

New York City: Sub-Station 84

Garrison, N. Y.

R-S The Original Mechanically Operated Side by Side Valve Motor



Time and again, during the past nine years we have demonstrated that the R-S Motor with its integral cams and gears of specially treated Vanadium Steel, its large cooling flanges, its long stroke, its mechanically operated Valves is the most reliable, flexible, powerful and durable Motor that stands the test of time. It triumphs over the worst road conditions and survives the most gruelling tests, yet remains fresh and sweet through it all—never taxed to its utmost, but always with plenty of power on which to draw.

We are the originators of the Mechanically Operated Side by Side Valve Motor and therefore eight years in advance of all others. The R-S is not an experiment at the expense of the rider.

With such a motor to start with is there any wonder that the other features of the R-S are in keeping with the recognized superiority of the R-S Motors.

Write for catalogue and dealer's proposition.

READING STANDARD COMPANY

511 Water Street

READING, PA.

The Scientific Monthly

Entered as second-class matter October 1, 1915, at the post-office of Lancaster, Pennsylvania,
under the Act of March 3, 1879

CONTENTS OF THE MARCH NUMBER

Insects and the National Health. Professor Charles T. Brues
Zoology and the War. Professor Maynard M. Metcalf.
Papers Presented before the Section of Social and Economic Science of the American Association for the Advancement of Science:
A Comprehensive Immigration Policy and Program. Sidney L. Gulick.
The Present Economic and Social Conditions as results of Applied Science and Invention. George W. Perkins.
The Financing of Public Utilities. Nathaniel T. Guernsey.
Scientific Criteria for Efficient Democratic Institutions. Professor Albert S. Wright.
Railroad Finance from the Standpoint of Efficiency. Professor Howard C. Kidd.
Labor Conditions with Reference to the War. Professor Francis Tyson.
What are Enzymes. Dr. Benjamin Horowitz.
The Girasole, or Jerusalem Artichoke, a Neglected Source of Food. Professor T. D. A. Cockerell.
The Mathematical Principles of Pictorial Representation. Professor Arnold Emch.
The Progress of Science:
Franklin Paine Mall; A Crystal Mirror for Focusing X-Rays; Public Health Charts; Medical Research in France and the Red Cross; Scientific Items.

CONTENTS OF THE APRIL NUMBER

Weather Controls over the Fighting in Mesopotamia, in Palestine and near the Suez Canal. Professor Robert deC. Ward.
A National Park Policy. Professor F. A. Waugh.
The Research Couplet: Research in Pure Science and Industrial Research. William Allen Hamor.
A New Situation in the Orient. Dr. Sudhindra Bose.
Language Reform and the Progress of English Peoples. Dr. Jos. V. Collins.
The Health of College Athletes. Professor C. E. Hammett.
The Habits of the Fishes of Inland Lakes. Professor A. S. Pearse.
The Work of Museums in War Time. Dr. Harlan I. Smith.
The Progress of Science:
Samuel Gibson Dixon; The Geography of the Italian Front; Aerial Photography and the War; Scientific Items.

 The MONTHLY will be sent to new subscribers for six months for One Dollar.

SUBSCRIPTION ORDER

To THE SCIENCE PRESS,

Publishers of THE SCIENTIFIC MONTHLY,

Sub-Station 84, New York City.

Please find enclosed check or money order for three dollars, subscription to THE SCIENTIFIC MONTHLY for one year, beginning April, 1918

Name.....

Address.....

Single Number 30 Cents

Yearly Subscription \$3.00

THE SCIENCE PRESS

Lancaster, Pa.

Garrison, N. Y.

Sub-Station 84; New York

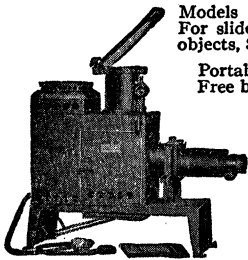
New Maps for Old

NEVER was there keener interest than today, throughout the length and breadth of the land, in Old World scenes and stories. You can picture them best with the aid of the

Bausch^{and} Lomb Balopticon

THE PERFECT STEREOPTICON

For formal lecture, or informal entertainment, for education or diversion, the Balopticon is almost indispensable. Projects clear, brilliant pictures, from lantern slides or from post cards or prints. Simple and safe for **anyone** to operate, because of the new gas-filled Mazda lamp.



Models for every requirement. For slides, \$31.50 up; for opaque objects, \$42 up; for both, \$55 up.

Portable models for travelers. Free booklets on request.

**Bausch & Lomb
Optical Co.**

550 St. Paul Street
Rochester, N. Y.

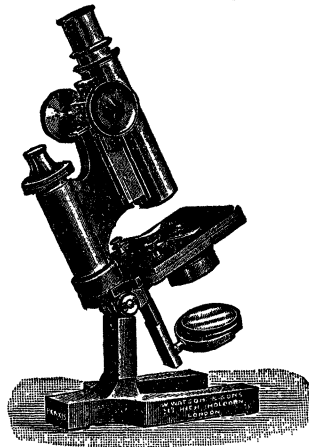
*Leading American Makers
of high-grade Optical
Products*

W. Watson & Sons, Ltd.

BRITISH MADE

STUDENTS MICROSCOPES

The "Praxis" Stand is the Student's model par excellence. Made throughout with the same accuracy



and finish as on Watson's highest priced Stands.

A few special points are:—Standardization so that additional movements may be fitted as required. Lever fine adjustment. Constructed of two solid castings and indestructible. All parts are slotted and sprung to compensate for wear.

Price for Stand only \$18.90.

Catalogue of Microscopes and Accessories for all purposes gratis on request from

W. WATSON & SONS, Ltd.

Established 1837

313, High Holborn, London, England

Refracting and Reflecting Astronomical Telescopes

Standard and Portable

Visual and Photographic OBJECTIVES

Computed by our associate

Dr. F. R. MOULTON

(Chicago University)

OBSERVATORIES

Specula, Planes, Eyepieces, etc.

Photographs and Circulars on request

LOHMANN BROS.

GREENVILLE, OHIO

::

::

::

::

U. S. A.

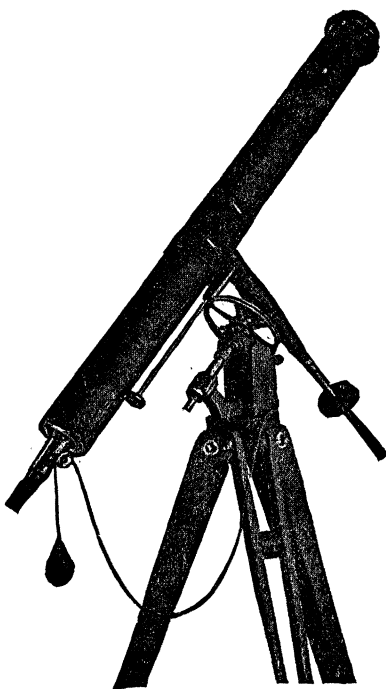


Illustration shows 5-in. with
pneumatic clock